

WHAT IS CLAIMED IS:

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5 1. A method for transferring information over a forward/reverse link pair between a transmitting entity and a receiving entity comprising the steps of:
receiving, at said receiving entity, blocks of data over said forward link;
determining a quality level of at least one of said received data blocks and said forward link; and
transmitting, over said reverse link, an indicator to said transmitting entity which indicates a status of incremental redundancy combining at said receiving entity.

10 2. The method of claim 1, further comprising the step of:
transmitting, with said indicator over said reverse link, at least one link quality estimate based on a result of said determining step.

15 Sub B3 3. The method of claim 1, further comprising the step of:
transmitting, with said indicator over said reverse link, a modulation/coding scheme command.

20 4. The method of claim 1, further comprising the step of:
selecting, at said transmitting entity, a modulation/coding scheme for transmitting subsequent data blocks on said forward link based on said indicator.

25 5. The method of claim 4, wherein said step of selecting further comprises the step of:

selecting a more robust modulation/coding scheme if said indicator informs said transmitting entity that incremental redundancy combining may be unavailable at said receiving entity.

Sub B3 6. The method of claim 2, further comprising the step of:

selecting, at said transmitting entity, a modulation/coding scheme for transmitting subsequent data blocks on said forward link based on said indicator and said link quality measurements.

5 7. The method of claim 6, wherein said step of selecting further comprises
the step of:

selecting a more robust modulation/coding scheme than otherwise needed based on said link quality measurements if said indicator informs said transmitting entity that incremental redundancy combining may be unavailable at said receiving entity.

10 *Sub B4* The method of claim 3, wherein said transmitting entity selects a first modulation/coding scheme for new blocks based on said modulation/coding scheme command and a second modulation/coding scheme for retransmitted blocks based on said indicator.

15 7 9. A method for transferring information over a forward/reverse link pair
between a transmitting entity and a receiving entity comprising the steps of:

transmitting, by said transmitting entity, an indicator associated with resegmentation of blocks to be retransmitted by said receiving entity;

20 selecting a modulation/coding scheme, at said receiving entity, based on
said indicator; and

retransmitting, by said receiving entity, data over said reverse link based using said selected modulation/coding scheme.

25 10. The method of claim 9, wherein said step of selecting a modulation/coding scheme further comprises the step of:

selecting a more robust modulation/coding scheme for retransmission than was used for original transmission if a resegmentation value is indicated.

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11. The method of claim 9, wherein said step of selecting a modulation/coding scheme further comprises the step of:

selecting a same modulation/coding scheme for retransmission as was used for original transmission if a not resegmentation value is indicated.

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The method of claim 9, further comprising the step of:
transmitting, with said indicator, a modulation/coding scheme command.

13. The method of claim 9, further comprising the step of:

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transmitting, with said indicator, at least one link quality measurement.

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14. A method for transmitting data blocks between a transmitting entity and a receiving entity over a forward and a reverse link comprising the steps of:

15 receiving entity of whether resegmentation of retransmitted blocks is preferred; and
transmitting over said reverse link, a second indicator informing said transmitting entity of a status of incremental redundancy combining at said receiving entity.

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15. A receiver comprising:
a processor for processing received data blocks;
a memory for storing received data blocks to be combined with retransmitted versions of said stored data blocks; and
means for transmitting a message indicating a status of said memory.

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